



English Language Abstract of Foreign Patent

DE 19735901 A1

Original Title: DE19735902A1: Selektives Adsorbens fuer biologische Materialien

Translation Title: New selective adsorbent carrying peptide(s) that mimic complement C1q useful for removing immune complexes, viruses etc. from blood, plasma and serum

Assignee: IMTEC IMMUNDIAGNOSTIKA GMBH Non-standard company]

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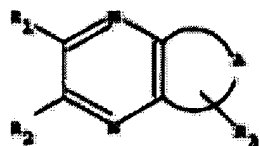
IPC Codes: C07K 17/00 ; C07K 7/00 ; C07K 14/00 ;

ABSTRACT

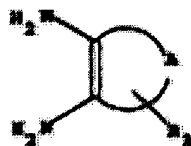
Novelty - Selective adsorbent for binding immune complexes, viruses, other pathogens, endotoxins, C-reactive proteins, amyloid, DNA, cardiolipids, fibronectin, fibrinogen and other biological materials comprises a solid carrier to which are bound synthetic peptides (I) which mimic the active center of protein C1q.

Use - The absorbent is useful for eliminating specified materials from blood, plasma and serum, for medical or pharmaceutical applications. Selective binding interaction. A microtitre plate was coated with C1q, then tested in an immunoassay, for inhibition of binding to aggregated human immunoglobulin (representing circulating immune complexes, final concentration 0.8 μ g/ml) in presence of peptide of formula (A): RFDHVITNMNNYEPR (A). The dissociation constant was 7 μ g/ml, indicating effective inhibition of binding.

Advantage - The absorbent can be produced with consistent quality from readily available synthetic peptides. (I) bind the specified materials with high affinity and selectivity.



(I)



(II)